

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/964827
		Filing Date	09/25/01
		First Named Inventor	Stephen Melvin Enrique Musoll Mario D. Nemirovsky
		Group Art Unit	2143
		Examiner Name	Kyung H. Shin
Sheet 1 of 3	Attorney Docket Number	MIPS.0183-00-US	

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code 2			
KHS	AA	5708814		Short et al	01/13/1998	
	AB	5724565		Dubey et al	03/03/1998	
	AC	6169745		Liu et al	01/02/2001	
	AD	6460105		Jones et al	10/01/2002	
	AE	6523109		Stephan G. Meier	02/18/2003	
	AF	6535905		Kalafatis et al	03/18/2003	
	AG	2001/0004755		Levy et al	06/21/2001	
	AH	2001/005253		Hiroshi Komatsu	06/28/2001	
	AI	2002/0049964		Takayama et al	04/25/2002	
	AJ	2002/0071393		Enrique Musoll	06/13/2002	
	AK	2002/0083173		Musoll et al	06/27/2002	
✓	AL	09/608750		Nemirovsky et al	Not Published	

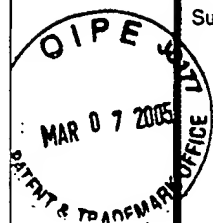
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number ⁴	Kind Code 5			
KHS	BA	WO 03/005645A2		Sampath et al.	01-16-2003	

Examiner Signature	<i>Kyung H. Shin</i>	Date Considered	9-19-2005
-----------------------	----------------------	--------------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/964827
		Filing Date	09/25/01
		First Named Inventor	Stephen Melvin Enrique Musoll Mario D. Nemirovsky
		Group Art Unit	2143
		Examiner Name	Kyung H. Shin
Sheet 2 of 3	Attorney Docket Number	MIPS.0183-00-US	

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
KHS	CA	MELVIN ET AL, "Extended Instruction Set for a Packet Processing Applications:, July 5, 2001, Disclosure Document #496559, USPTO	
	CB	MUSOLL ET AL, "Mechanism for Allowing a Limited Packet Head and/or Tail Growth Without Moving the Packet to a Different Memory Location," April 16, 2001, Disclosure Document #492429, USPTO	
	CC	MUSOLL ET AL, "Mechanism to Activate a Context When No Stream is Running in a Multi-Streaming Processing Core", April 16, 2001, Disclosure Document #492431, USPTO	
	CD	MUSOLL, ENRIQUE, "Functional Validation of a Packet Management Unit:, May 18, 2001, Disclosure Document #494011, USPTO	
	CE	SAMPATH ET AL, "Mechanism To Un-Speculatively Pre-Fetch Instructions From the Thread Associated to a Packet:, July 5, 2001, Disclosure Document #491527, USPTO	
	CF	YAMAMOTO, WAYNE. <i>An Analysis of Multistreamed, Superscalar Processor Architectures</i> . University of California Santa Barbara Dissertation. December 1995. Santa Barbara, US.	
	CG	YAMAMOTO et al. "Increasing Superscalar Performance Through Multistreaming." <i>Parallel Architectures and Compilation Techniques (PACT '95)</i> . 1995	
	CH	The PowerPC Architecture: A Specification for a New Family of RISC Processors. 2 nd Ed. May 1994. pp. 70-72. Morgan Kaufmann. San Francisco, US.	
	CI	MC68020 32-Bit Microprocessor User's Manual. 3 rd Ed.. 1989. pp. 3-125, 3-126, and 3-127. Prentice Hall, NJ, US.	
	CJ	MUSOLL ET AL, "Mechanism to Overflow Packets to a Software Controlled Memory When They Do Not Fit into a Hardware Controlled Memory, July 3, 2001, Disclosure Document #496391, USPTO	
✓	CK	PAI, VIJAY ET AL. "An Evaluation of Memory Consistency Models for Shared-Memory Systems with ILP Processors." <i>Proceedings of ASPLOS-VII</i> , Oct. 1996: pp. 12-23, ACM, Inc.	

Examiner Signature	<i>Kyung H. Shin</i>	Date Considered	9-19-2005
--------------------	----------------------	-----------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	09/964827		
		Filing Date	09/25/01		
		First Named Inventor	Stephen Melvin Enrique Musoll Marlo D. Nemirovsky		
		Group Art Unit	2143		
		Examiner Name	Kyung H Shin		
Sheet	3	of	3	Attorney Docket Number	MIPS.0183-00-US

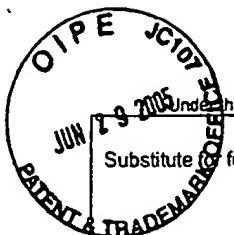
OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
KHS	CL	POTEL, M. J. "Real-Time Playback in Animation Systems." <i>Proceedings of the 4th Annual Conference on Computer Graphics and Interactive Techniques</i> . 1977. pp. 72-77. San Jose, CA, US.	
	CM	ARM Architecture Reference Manual. 1996. pp. 3-41, 3-42, 3-43, 3-67, and 3-68. Prentice Hall, NJ, US.	
	CN	ESA/390 Principles of Operation. IBM Online Publications Center Reference Number SA22-7201-08. Table of Contents and paras. 7.5.31 and 7.5.70. IBM Corporation. Boulder, CO, US.	
	CO	MC88110 Second Generation RISC Microprocessor User's Manual. 1991. pp. 10-66, 10-67, and 10-71. Motorola, Inc.	
	CP	DIEFENDORFF, KEITH ET AL. "Organization of the Motorola 88110 Superscalar RISC Microprocessor." <i>IEEE Journal of Microelectronics</i> . April 1992. pp. 40-63. Vol. 12, No. 2. IEEE. New York, NY, US.	
	CQ	KANE, GERRY. <i>PA-RISC 2.0 Architecture</i> . 1996, pp. 7-106 and 7-107. Prentice Hall. NJ, US.	
	CR	DIEFENDORFF, KEITH ET AL. "Altivec Extension to PowerPC Accelerates Media Processing." <i>IEEE Journal of Microelectronics</i> . Vol. 20, No. 2 (2000): pp. 85-95	
	CS	GRUNEWALD, WINFRIED ET AL. "Towards Extremely Fast Context Switching in a Block Multithreaded Processor." <i>Proceedings of EUROMICRO 22</i> , 1996. pp. 592-599	
	CT	BRADFORD, JEFFREY ET AL. "Efficient Synchronization for Multithreaded Processors." <i>Workshop on Multithreaded Execution, Architecture, and Compilation</i> . Jan-Feb 1998. pp. 1-4	
	CU	YOAZ ET AL. "Speculation Techniques for Improving Load Related Instruction Scheduling." 1999. Pages 42-53. IEEE.	
	CV	KESSLER, R. E. "The Alpha 21264 Microprocessor: Out-of-Order Execution at 600 MHz." August 1998.	
	CW	DONALDSON ET AL. "DISC: Dynamic Instruction Stream Computer, An Evaluation of Performance." 26 th <i>Hawaii Conference on Systems Sciences</i> . Vol. 1. 1993. Pages 448-456.	
	CX	MUSOLL ET AL, "Hardware Algorithm for Allocating and De-Allocating Consecutive Blocks of Memory," April 3, 2001. Disclosure Document #491557, USPTO	
✓	CY	NEMIROVSKY ET AL. "DISC: Dynamic Instruction Stream Computer." ACM. 1991. Pages 163-171	

Examiner Signature	Kyung H. Shin	Date Considered	9-19-2005
--------------------	---------------	-----------------	-----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Substitute form 1449-PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	09/964827
				Filing Date	09/25/01
				First Named Inventor	Stephen Melvin
				Art Unit	2143
				Examiner Name	Kyung H. Shin
Sheet	1	of	1	Attorney Docket Number	MIPS.0183-00-US

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
KHS		4200927	04-29-1980	Huges et al.	
		6151644	11-21-2000	Chun-Chu Archie Wu	
		6453360	09-17-2002	Muller et al.	
		20010052053	12-13-2001	Nemirovsky et al.	
		20010043610	11-22-2001	Nemirovsky et al.	
		20020016883	02-07-2002	Musoll et al.	
		20020054603	05-09-2002	Musoll et al.	
		20040213251	10-28-2004	Tran et al.	
		20040172504	09-02-2004	Balazich et al.	
		20040015598	01-22-2004	Jin-Fun, Lin	
		09/602,279	NA	Nemirovsky et al.	
		5559970	09-24-1996	Vinod Sharma	
✓		6614796	09-02-2003	Black et al.	

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
KHS	AA	MUSOLL ET AL. Mechanism to Prevent the Download of a Packet with Pending Writes Affecting Its Data. April 11, 2001. Disclosure Document #492430, USPTO		
↓	AB	UNGERER ET AL. A Survey of Processors with Explicit Multithreading. ACM Computing Surveys, Vol., 35, No. 1. March 2003. Pages 29-63.		

Examiner Signature	<i>Kyung H. Shin</i>	Date Considered	9-19-2005
--------------------	----------------------	-----------------	-----------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 27 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.